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**Product Name :**  
Stress And Strain Analysis On A Thin Walled Cylinder

**Product Code :**  
LBNY-0005-12700069



#### **Description :**

Hydraulic cylinder with hydraulic pump to generate pressure  
Hermetically sealed hydraulic system, maintenance-free  
Investigation of the stresses and strains in a thin-walled cylinder under internal pressure  
Strain gauge application on cylinder surface at various angles  
Cylinder usable as open pipe or as closed tank

#### **Technical Specification :**

Aluminum cylinder  
Length: 400mm  
Diameter:  $d=75\text{mm}$   
Internal pressure: max.  $3,5\text{N/mm}$ (35bar)  
Wall thickness: 2,8mm  
Pressure gauge  
0...40bar, accuracy: class 1,0  
Strain gauge application  
Gauge factor:  $2,00 \pm 1\%$   
Supply voltage: 10V  
5 strain gauges: half-bridges, 350 Ohm  
Angle to vessel axis: 0, 30, 45, 60, 90.



**Laboratory Instrument India**